

Rea No: 1999/027771/07

(Pty) Ltd

7 Spanner Rd / PO Box 467 Olifantsfontein 1665

> Tel: +27 (11) 316 4601 Fax: +27 (11) 316 5670

E-mail: admin-mgr@explolabs.co.za

GOVERNMENT APPROVED TEST LABORATORY

IN TERMS OF ARP 0108: "REGULATORY REQUIREMENTS FOR EXPLOSION PROTECTED APPARATUS"

IA CERTIFICATE

Date Issued: 18 Jan 2017 *Expiry date: 18 Jan 2027

Page 1 of 3 Issue: 0

Ex – Type Examination Certificate

Certificate Number: S-XPL/16.1087 U

Kwik-block terminals, Earthing blocks and End clamps Equipment: Model / Type: **Terminals** - IK3, IK5, IK10, IK16, IK25, IK51, IK70

> Mini Terminals - HSK3 Screw-less Terminals - IFK2.5

Earthing Blocks - IKE2.5, IKE4, IKE10, IKE16, IKE50

End Clamps - SK35 Pratley Manufacturing (Pty) Ltd

14 Jackson Street Krugersdorp

Pratley Maunfacturing (Pty) Ltd Manufacturer:

Serial No: All serial numbers of equipment covered by a valid report or acceptable

product certification mark.

The unit(s) as described in Explolabs File Number XPL/17799/16.1087 is hereby certified "Explosion" Protected" Ex e IIC T6 Gb, having been tested, examined and inspected in accordance with the relevant requirements of South African Standards:

SANS 60079-0: 2012 Ed 5

Explosive atmospheres Part 0: Equipment — General requirements

IEC 60079-0: 2011 Ed 6 SANS 60079-7: 2007 Ed 3

Applicant:

Explosive atmospheres Part 7: Equipment protection by increased safety

IEC 60079-7: 2006 Ed 4

Risk of ignition provided:

	Protection afforded	Equipment Protection Level (EPL) Group	Performance of protection	Conditions of operation	T class or Max Surface Temp (°C)
TOTAL ST	High	Gb Group II	Suitable for normal operation and frequently occurring disturbances or equipment where faults are normally taken into account	Equipment remains functioning in zones 1 and 2	T6 (85℃)

This certification indicates compliance with R10.1 of the Mines Health and Safety Act and/or EMR 9(2) of the Occupational Health and Safety Act, provided that the apparatus is used as relevant in accordance with:

SANS 10086 and IEC/SANS 61241-14 requirements as applicable;

Any conditions mentioned in the above report;

Any relevant requirements and codes of practice enforced in terms of the Mine Health and Safety Act or Occupational Health and Safety Act; and

Any restrictions and conditions enforced by the Chief Inspector of Mines or the Principal Inspector or the Chief Inspector: Occupational Health and Safety.

A revision certificate replaces all previous version of the certificate

- Only covers equipment Imported between the "Issued" and "Expire" dates.

If and when your QAN (Quality Assurance Notification) Certificate for your equipment manufacturer expires during the valid period of the IA Certification (issued for your equipment) and a new certificate is not submitted the existing IA Certification will then be cancelled. It is thus the client's responsibility to always submit the updated and valid QAN certificate(s) to Explolabs (Pty) Ltd





The South African National Accreditation System (SANAS) is a member of the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA). This Arrangement allows for the mutual recognition of technical test and calibration data by the member accreditation bodies worldwide. For more information on the Arrangement please consult www.ilac.ora



ANNEX TO CERTIFICATE NO S-XPL/16.1087 U **DESCRIPTION OF EQUIPMENT**

IK, HK range of Terminals:

The IK and HK range of terminals were manufactured from Zytel 101F/135F PA66 polyamide material. The IK and HK range of terminals was din rail mounted and secured by means of end connectors. The conductive parts of the terminal were manufactured from Nickel plated brass 💣 grade CuZn39Pb3 the fasteners used were zinc plated rolled steel fasteners. For the electrical rating and conductor size refer to Table 1.

Screwless Terminal IFK2.5:

The IKF screwless terminals were manufactured from Zytel 101F/135F PA66 polyamide material. The terminals were din rail mounted and secured by means of end connectors. The conductive parts of the terminal were manufactured from Nickel plated brass grade CuZn39Pb3. For the electrical rating and conductor size refer to Table 1.

Earthing Blocks:

The IKF range terminals were manufactured from Zytel 101F/135F PA66 polyamide material. The terminals were din rail mounted.

End Clamp type SK37:

The end clamps was manufactured from Zytel 101F/135F PA66 polyamide material. The end clamps was din rail mounted and used to secure terminals on a din rail.

Table 1

_ Rated Current Cross-section				
Туре	(Ampere)	(mm²)	Rated Voltage	
IK3	15A	1.5 to 2.5	550	
IK5	21A	4.0 to 6.0	550	
IK10	37A	10.0	550	
IK16	47A	16.0	550	
IK25	63A	25.0	550	
IK51	98A	35.0 to 50.0	550	
IK70	121A	70.0	550	
IFK2,5	15A	0.2 to 4	550	
HK3	15A	0.5 to 4	550	
IKE4	N/A	0.5 to 4	N/A	
IKE10	N/A	4 to 10	N/A	
IKE16	N/A	0.5 to 16	N/A	
IKE50	N/A	50.0	N/A	
IKE2,5E	N/A	2.5	N/A	
SK35	N/A	N/A	N/A	

PAGE 2 OF 3

SCHEDULE OF LIMITATIONS (denoted by U after certificate number)

•... The terminals may only be used inside a previously approved Ex enclosure with a minimum IP rating of IP54.

epiolais Ceptolais Ceptolais

- •... A surface temperature test must be conducted on the equipment enclosure that the terminals are fitted to.
- •... The creepage and clearance distances between the terminal and the surrounding conducting parts needs to be assessed on installation.

3. INSTALLATION INSTRUCTIONS

It is the manufacturer's responsibility to supply installation instructions with each unit offered for sale as required by IEC/SANS 60079-0 Clause 30.

CONDITIONS OF CERTIFICATION 4.

All production units must be covered by a QAN (Quality Assurance Notification), Product Mark Scheme or batch evaluation.

5. **MARKING**

The following (or similar) information have to be clearly and permanently marked on all units:

Supplier : Pratley Manufacturing (Pty) Ltd Manufacturer : Pratley Maunfacturing (Pty) Ltd

Equipment : Kwik-block terminals, Earthing blocks and End clamps

- IK3, IK5, IK10, IK16, IK25, IK51, IK70 Model/Type : Terminals

Mini Terminals - HSK3 Screw-less Terminals - IFK2.5

Earthing Blocks - IKE2.5, IKE4, IKE10, IKE16, IKE50

End Clamps - SK35

Serial No.

Ex Rating : Ex e IIC T6 Gb IA Certificate No : S-XPL/16.1087 U

Responsible Testing Officer:

Reviewed by:

D Maree

H de Wet **Senior Testing Officer Testing Officer**

EXPLOLABS EXPLOSION PREVENTION SERVICES

This report/certificate shall not be reproduced except in full without the written approval of the company Exploiabs (Ptv) Ltd shall not be liable for any losses or damages sustained on account of any failure or omission to properly perform our duties in terms of any contract undertaken by us. This disclaimer is immutable and automatically incorporated in any contract undertaken by us; notwithstanding anything to the contrary, save for the express written waiver of our managing director. By marking the equipment in accordance with the documentation/standard, the manufacturer attests on his own responsibility that the equipment has been constructed in accordance with the applicable requirements of the relevant standards and that the routine verifications and tests have been successfully completed and that the product complies with the documentation and standard(s). The contents of electronic reports/certificates cannot be guaranteed. Original certification documents will be kept on file at Explolabs (Pty) Ltd